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In re Patent Application of

SQUIRRELL et al.

Atty. Ref.: 1498-130

Serial No. 09/529,722

Group: 1652

Filed: April 19, 2000

Examiner: Steadman

For: METHOD FOR OBTAINING LUCIFERASE FREE OF THERMOSENSITIVE
ADENYLATE KINASE CATALYTIC ACTIVITY

* * * * *

October 2, 2002

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

AMENDMENT AFTER FINAL REJECTION

Responsive to the Official Action dated July 2, 2002, entry and consideration of
the following amendments and remarks are requested.

IN THE CLAIMS

Amend the claims as follows.

Cancel claims 33-46, without prejudice.

Add the following claims.

--47. (New) A method for producing a luciferase protein which is thermostable
and substantially free of adenylate kinase, the method comprising culturing a host cell
comprising a first nucleotide sequence which encodes said luciferase protein which
retains at least partial luciferase activity at temperatures of 37°C, or more, and a second
nucleotide sequence which encodes a mutant adenylate kinase polypeptide which is